

Status of the World's Transfrontier Protected Areas

Dorothy C. Zbicz, Duke University

Nicholas School of the Environment, Box 90328, Durham, NC 27511, USA

and

Michael J. B. Green, World Conservation Monitoring Centre

219 Huntingdon Road, Cambridge CB3 0DL, U.K.

1. INTRODUCTION

Protected areas that adjoin across international boundaries, referred to in this paper as *transfrontier protected areas*, provide intriguing possibilities for promoting biodiversity conservation across politically-severed ecosystems and species' home ranges, as well as transfrontier collaborative management which may ultimately contribute to international peace. Since 1932, when Waterton/Glacier was jointly declared the first *international peace park* by Canada and the United States of America, the concept has gained increasingly widespread recognition and application, particularly in the last decade.

The first review of transfrontier protected areas was presented to the Border Parks Workshop held in 1988 during the First Global Conference on *Tourism - A Vital Force for Peace*. A total of 70 cases involving 68 countries was identified where established or proposed protected areas met across international boundaries. (Thorsell and Harrison, 1990). The purpose of this paper is to examine progress since the 1988 Border Parks Workshop and assess the present extent of transfrontier protected areas. No attempt is made here to examine the level of collaborative management between protected areas that abut on international boundaries; this is the subject of ongoing research by the first author, for which the identification of all transfrontier protected areas in the world was the necessary first stage.

2. METHODOLOGY

The process of compiling a comprehensive list of transfrontier protected areas began three years ago with the list of *border parks* compiled by Thorsell and Harrison (1990). The list was updated with other information from various sources and from the many individuals at Duke University working in protected areas around the world. Further input was provided by protected area professionals attending the 1996 IUCN World Conservation Congress in Montreal. In the spring of 1997, the first author spent several weeks at the World Conservation Monitoring Centre (WCMC) in Cambridge, UK working with staff to verify this compiled list with the Centre's Protected Areas Database and its Biodiversity Map Library, an ARC/INFO-based Geographic Information System. She then took the list to IUCN Headquarters, Switzerland where, due to fortunate timing, she was also able to solicit feedback from the World Commission on Protected Areas Steering Committee, including its vice chairs from the different regions of the world. Finally, the list was verified by hundreds of protected area managers around the world, through electronic mail, fax and mail.

The following criteria were used for listing complexes of transfrontier protected areas:

- sites must adjoin across one or more international boundaries; and

- sites must qualify as protected areas, based on the IUCN (1994) definition¹. Such sites are assigned to one of six IUCN protected area management categories (I-VI).

Most of the identified transfrontier protected areas are actually part of larger conglomerates of protected areas, referred to in this paper as *transfrontier protected areas complexes*. This concept of complexes is useful for determining the area of contiguous habitat that is protected. Since each complex usually contains more than two protected areas, the total number of individual protected areas is much more than double the number of complexes. It should be noted, however, that not all protected areas within a complex necessarily adjoin an international boundary.

Transfrontier protected areas complexes were mapped using WCMC's Biodiversity Map Library. In the absence of digitized information for the boundaries of some protected areas, their locations were marked by a single georeferenced point. It was not possible to map all transfrontier protected areas due to a lack of both digital and georeferenced data in some cases.

Potential transfrontier protected areas were also identified on the basis of established protected areas adjoining proposed protected areas across an international boundary. This list of potential transfrontier protected areas is likely to be incomplete as data on proposed protected areas are much less comprehensive than data for established protected areas. For this reason the list is not presented here, but summary data derived from it are used to indicate the scale of future opportunities for promoting the international peace park concept.

3. STATUS OF TRANSFRONTIER PROTECTED AREAS COMPLEXES

3.1 Extent

A total of 136 transfrontier protected areas complexes were identified (Annex 1). These are distributed among 98 countries and comprise 406 individual protected areas. The total number of legally designated areas is higher (482) because a number of these have not been assigned to IUCN categories for various reasons. As shown in the accompanying maps, it has been possible to map 382 of the 406 protected areas, based on their digitized boundaries or known geographic coordinates. From the available information, we know that transfrontier protected areas complexes cover at least 1,127,934 km², this being the total area of the 382 protected areas (Table 1). Such complexes represent nearly 10% of the world's network of 13.2 million km² of protected areas or nearly 1% of the total area of all countries in the world (Green and Paine, in press). This highlights the global significance of transfrontier protected areas complexes in terms of their extensiveness, quite apart from their potential importance for collaborative management across international boundaries and ultimately for contributing to international peace.

Table 1 Summary of available information on mapped transfrontier protected areas complexes

Transfrontier protected areas complexes	Point locations (i.e. geographic coordinates)	Polygons (i.e. digitized boundaries)	Total
No. protected areas	142	240	382
Total area (km ²)	226,124	901,810	1,127,934
No. countries	53	64	98

A further 85 potential transfrontier protected areas complexes were identified. These are distributed among 14 countries additional to the 98 with established complexes. Potential transfrontier protected areas complexes have not been listed or mapped.

¹ A protected area is an area of land and/or sea especially dedicated to the protection and maintenance of biological diversity, and of natural and associated cultural resources, and managed through legal or other effective means (IUCN, 1994).

3.2 Growth

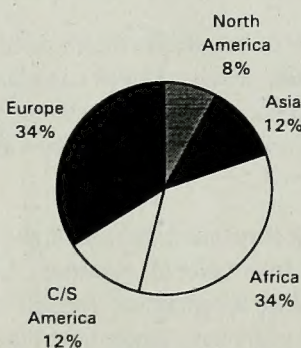
Comparison with the first survey by Thorsell and Harrison (1990) shows that there has been tremendous growth in the number of transfrontier protected areas complexes since 1988, particularly over the last three years. The number of complexes comprising established transfrontier protected areas has more than doubled, from 59 to 136. Furthermore, the number of complexes straddling the boundaries of three countries has increased from two in 1988 to 23 in 1997, with a further seven potential complexes identified. In one case, the proposed Mura-Drava complex, four countries (Austria, Croatia, Hungary and Slovenia) are involved. While some of this growth reflects changing political situations, as with the emergence of the Newly Independent States from the former Soviet Union, much of it represents genuine efforts to establish a common agenda for conserving biological diversity that straddles international boundaries.

Table 2 Regional growth of transfrontier protected areas complexes since 1988

Regions	No. complexes		No. protected areas 1997	No. proposed complexes		No. complexes with three countries 1997
	1988	1997		1988	1997	
N. America	5	8	37	0	4	0
C. & S. America	7	25	79	0	15	5
Europe	20	44	121	3	41	6
Africa	20	33	100	2	13	9
Asia	7	26	69	6	12	3
TOTAL	59	136	406	11	85	23

The regional distribution of transfrontier protected areas complexes is summarised in Table 2 for 1988 and 1997. In general, such complexes are distributed fairly evenly throughout the different regions, becoming more evenly spread during the last decade due to an increase in the percentage of complexes in Central and South America (Figure 1). The increase in Central and South America partly reflects the establishment of several transfrontier protected areas since the cessation of armed conflicts in the region. While North America contains only 6% of the world's total number of complexes, it should be appreciated that these occur along only two international boundaries.

1988 (N=59)



1997 (N=137)

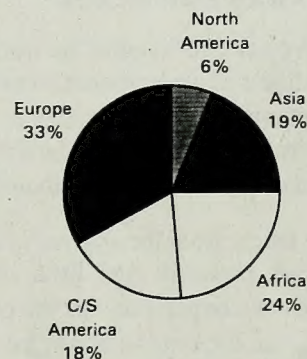


Figure 1 Regional distribution of transfrontier protected areas complexes in 1988 and 1997

3.3 International boundaries

As considered in Section 3.1, 98 countries have transfrontier protected areas complexes, which represents nearly half of the 224 countries and dependent territories in the world. The International Boundaries Research Unit, University of Durham, UK, maintains a global database of international boundaries, which includes at present 309 international boundaries (M. Pratt, pers. comm., 1997). Some 112 (36%) of these international boundaries have transfrontier protected areas complexes located along them and an additional 47 international boundaries contain potential complexes. It should be noted that there is not a 1:1 ratio between international boundaries and complexes. There are 23 complexes involving three countries and, therefore, three international boundaries. Conversely, 38 of the 112 international boundaries are straddled by more than one protected areas complex (24 have two complexes, nine have three, three have four and two have five complexes).

The regional distribution of existing and potential transfrontier protected areas complexes with respect to international boundaries is shown in Table 3. The number of international land boundaries has increased considerably in recent decades, from about 280 in the late 1980s to some 315 in 1997 (Blake, these proceedings), leading to increased opportunities for transfrontier protected areas complexes. In Europe, for example, the number of such complexes has doubled since 1988 (Table 2), partly due to the increased number of boundaries resulting from dissolution of the former USSR in 1991. Moreover, most of the proposed complexes in Europe (Table 3) lie along these new political boundaries in former eastern Europe or USSR.

Table 3 Regional distribution of protected areas complexes straddling international boundaries

Region	Number of international boundaries with:		
	1 transfrontier protected areas complex	1 potential transfrontier protected areas complex*	> 1 transfrontier protected areas complex
N. America	2	1	2
C. & S. America	21	6	8
Europe	33	28	12
Africa	34	9	11
Asia	22	3	5
TOTAL	112	47	38

* Not included in Column 2

4. PARKS FOR PEACE

Some 136 cases exist around the world where the boundaries of two or more contiguous protected areas straddle 112 international boundaries. These transfrontier protected areas complexes provide real opportunities for co-operative management across international boundaries in the interests of biodiversity conservation. In the broader political framework, such cooperation contributes to political stability between neighbouring countries.

In a 1991 article from the *Journal of Peace Research*, Brock concluded that although peace parks to date had probably had little independent effect on international relations, transfrontier environmental cooperation has the potential to develop into an independent variable influencing world politics. Experience in Europe during the past twenty years has demonstrated the important role of cooperative resource management at the local, transfrontier level in leading to greater European economic, social and political integration. Brock (1991) suggests that environmental cooperation may have a direct effect on regional politics by helping to internalize norms, establish regional identities and interests, operationalize routine international communication, and marginalize the acceptability of the use of force. Simply establishing international peace parks is

unlikely to bring an end to border hostilities, but such initiatives may help to promote communication and cooperation as an early part of the peace process, building confidence and ultimately improving transfrontier relations. Where transfrontier relations are already cordial, they can be enhanced by focusing on biodiversity conservation objectives within adjoining protected areas.

In the past decade, many countries have begun to explore the potential for promoting transfrontier protected areas as models of international cooperation. Examples include: Laos/Cambodia/Thailand, Ecuador/Peru, La Amistad between Costa Rica and Panama, Si-a-Paz between Costa Rica and Nicaragua, Turkey/Greece, Bosnia/ Serbia-Montenegro, Papua New Guinea/ Indonesia, Jordan/ Israel, South Africa/ Mozambique and the demilitarized zone between North and South Korea. The extent to which transfrontier protected areas may serve the twin objectives of conserving biodiversity and promoting peace across international boundaries was the subject of a conference in 1993 (Westing, 1993). At a more recent workshop in 1995, the experience gained by managers from transfrontier mountain protected areas was reviewed, and common elements for effective transfrontier cooperation identified (Hamilton *et al.*, 1996).

In many more cases, however, the extent of transfrontier cooperation between adjoining protected areas has not yet been examined on a global scale. The next step is to assess the levels of cooperation that exist within existing transfrontier protected areas complexes. This is already underway by the first author by means of a questionnaire survey involving managers of all transfrontier protected areas in the world. This survey will provide the basis for identifying the conditions under which transfrontier cooperation is practicable and the factors which are most likely to encourage or inhibit it.

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Annex 1

List of Transfrontier Protected Areas Complexes

Note: Complexes may include proposed protected areas and areas designated under national legislation that have not been assigned an IUCN Category (i.e. unassigned), provided that there is at least one established protected area adjacent to another either side of an international boundary.

Countries	WCMC Code	Designated Areas	IUCN Category
North America			
Canada/	612	Kluane National Park & Preserve	II
	18707	Kluane Wildlife Sanctuary	IV
	7406	Tatshenshini-Alsek Wilderness Park/	II
US	13038	Tongass National Forest	IV
	1005	Wrangell-St Elias National Park	II
	35387	Wrangell-St Elias Wilderness Area	Ib
	22490	Wrangell-St Elias National Preserve	V
	1010	Glacier Bay National Park	II
	22485	Glacier Bay National Preserve	V
	35382	Glacier Bay Wilderness Area	Ib
Canada/	626	Waterton Lakes National Park	II
	21193	Akamina Kishinena Provincial Park Flathead Provincial Forest Reserve/	II
US	973	Glacier National Park	II
	100967	Flathead National Forest	VI
Canada/	100672	Ivvavik National Park	II
	100673	Vuntut National Park	II
	101594	Old Crow Flats Special Management Area/	Ib
US	2904	Arctic National Wildlife Refuge	IV
Canada/	66395	Quetico Wilderness Provincial Park Naguaguon Lake Indigenous Reserve/	II
US	21322	Boundary Waters Canoe Area Wilderness Area	Ib
	100955	Superior National Forest	VI
	988	Voyageurs National Park	II
Canada/	4185	Cathedral Provincial Park	II
	18646	E. C. Manning Provincial Park	II
	101678	Skagit Valley Recreation Area	II
	65159	Cultus Lake Provincial Park Naguaguon Lake Indigenous Reserve/	II
US	979	N. Cascades National Park	II
	21389	Pasayten Wilderness National Forest	Ib
Mexico/	101431	Sierra de Maderas del Carmen National Park	
	101457	Cañón de Santa Elena National Forest/	VI
US	976	Big Bend National Park	II
Mexico/	34862	Sierra de los Ajos National Park/	
US	100881	Coronado National Forest	
Mexico/	32971	El Pinacate y Gran Desierto de Altar National Biological Reserve	VI
	18091	Sierra del Pinacate Refugio	IV
	101409	Alto Golfo National Biological Reserve/	VI
US	13771	Cabeza Prieta National Wildlife Refuge	IV
	35472	Cabeza Prieta Wilderness Area	Ib
	35977	Organ Pipe Cactus Wilderness Area	Ib
	1020	Organ Pipe Cactus National Monument Tohono O'odham Reservation	III

Countries	WCMC Code	Designated Areas	IUCN Category
Latin America			
Belize/	20224 61957	Río Bravo Conservation Area Private Reserve Aguas Turbia National Park/	IV II
Guatemala/	26621 30604 102817	Maya Biosphere Reserve Mirador -Río Azul National Park Naachtún - Dos Lagunas Protected Biotope/	n/a Ia II
Mexico	19570	Calakmul Biological Reserve	VI
Belize/	20230 3314 116297 28850	Chiquibul National Park Columbia River Forest Reserve Vaca Forest Reserve Maya Mountains Forest Reserve/	II VI VI VI
Guatemala		Complejo III - Reserva de Biosfera Montañas Mayas Chiquibul	
Costa Rica/	167 30599 12493	Tortuguero National Park Tortuguero Protected Zone Barro del Colorado National Wildlife Reserve/	II VI IV
Nicaragua	30628 20220	Río Indio-Maíz Biological Reserve San Juan Delta	Ia Pr
Colombia/	142	Los Katios National Park/	II
Panama	236 102255	Darién National Park Punta Patiño Nature Reserve	II
Costa Rica/	2553 12491	La Amistad National Park Las Tablas Protected Zone/	II VI
Panama	2552 17185 102253	La Amistad National Park Palo Seco Lagunas de Volcán	II VI IV
Costa Rica/	19402	Gandoca y Manzanillo National Wildlife Refuge/	IV
Panama	16787	Isla Bastimentos Marine National Park	II
El Salvador/	9638	Montecristo National Park/	IV
Guatemala/	102815	Fraternidad o Trifinio National Biosphere Reserve/	n/a
Honduras	18804	Montecristo Trifinio National Park	II
El Salvador/		Proposed/	Pr
Honduras/	40996	Río Negro Biological Reserve/	IV
Nicaragua	12652	Estero Real Natural Reserve	II
Guatemala/		Lacandón National Park/	
Mexico	14305 67671	Montes Azules Biological Reserve Bonampak National Monument	Ia III
Honduras/	41014 41045 41013 41034	Río Plátano National Park Tawasha Indigenous Reserve Patuca National Park Río Coco Natural Monument/	Pr II Pr
Nicaragua	2650	Bosawas National Reserve	VI
Argentina/	15 61817	Iguazú National Park Iguazú Strict Nature Reserve/	II Ia
Brazil/	60	Iguaçu National Park/	II
Paraguay		M.S. Bertoní	
Argentina/	97490 97523	Nahuel Huapi National Park Nahuel Huapi Strict Nature Reserve/	II Ib
Chile	90 88	Puyehue National Park Vicente Pérez Rosales National Park	II II

Countries	WCMC Code	Designated Areas	IUCN Category
Argentina/	7	Lanin National Park	II
	61820	Lanin Strict Nature Reserve	Ia
	2497	Lanin Natural Monument	II
	30844	Complejo Islote Lobos	IV
	16875	Chañy Forest Reserve/	VI
Chile	91	Villarrica National Park	II
	10706	Villarrica National Reserve	IV
	9418	Huerqueque National Park	II
Argentina/	6	Los Glaciares National Park	II
	4329	Los Glaciares Strict Nature Reserve/	Ia
Chile	9414	Bernardo O'Higgins National Park	II
	89	Torres del Paine National Park	II
Argentina/	16873	Copahue -Caviahue Provincial Park/	II
Chile	111	Ñuble Reseserva Nacional	IV
Bolivia/	20049	Iténez Reserva Fiscal/	VI
Brazil	5126	Guaporé Federal Biological Reserve	Ia
	41090	Baixo Sao Miguel State Extractive Forest	VI
	34028	Pedras Negras State Extractive Forest	VI
Bolivia/	36	Eduardo Avaroa National Reserve/	IV
Chile	94112	Liancabur National Park	II
	30043	Los Flamencos National Reserve	IV
Bolivia/	33	Sajama National Park	II
	20030	Sajama Integrated Management Area	
	20035	Altamachi Vicuña Reserve/	IV
Chile	86	Lauca National Park	II
	9435	Las Vicuñas National Reserve	IV
Bolivia/	98183	Madidi National Park/	II
Peru	7460	Pampas de Heath National Sanctuary	III
Brazil/	101760	Tucumaque Forest Reserve/	VI
Suriname	276	Sipaliwini Nature Reserve	IV
Brazil/	54	Pico da Neblina National Park/	II
Venezuela	4367	Serrania de La Neblina National Park	II
Colombia/	9400	La Paya National Park/	II
Ecuador/	2499	Cuyabeño Reserva Faunistica/	VI
Peru	98245	Guepi National Park	Un
Colombia/	144	Tamá Natural National Park/	II
Venezuela	322	El Tamá National Park	II
	101129	Cerro Machado- El Silencio	VI
	30640	San Antonio- Ureña Protected Zone	V
Colombia/	19993	Catatumbo-Bari National Park/	II
Venezuela	318	Perijá National Park	II
	20068	Región Lago de Maracaibo -Sierra de Peri Protected Zone	V
Ecuador/	186	Yasuni/	II
Peru	249	Reserva Nacional Pacaya Samira	VI
Europe			
Albania/		Prespa Lake National Park/	
Greece/	674	Prespes National Park/	II
Former Yugoslav Republic of Macedonia	2516	Galichica National Park	II
	1056	Pelister National Park	II

Countries	WCMC Code	Designated Areas	IUCN Category
Austria/	102736	Thayatal Protected Landscape Area	V
	103578	Thayatal Nature Reserve/	IV
Czech Republic	30721	Podyji National Park	II
	4280	Podyji Protected Landscape Area	V
	61419	Palava Protected Landscape Area	
Austria/		Lainsitzniederung Strict Nature Reserve	V
	102882	Blockheide Eibenstein Nature Park	V
	5425	Blockheide Eibenstein Nature Reserve	
		Northern Waldviertel Area/	
Czech Republic	2558	Trebonsko Protected Landscape Area	V
Austria/		Bayerischer Wald, Böhmerwald, Sumava National Park/	Pr
Czech Republic/	4282	Šumava CHKO Protected Landscape Area	V
	26059	Šumava National Park	II
	26059	Sumavská Raselinistě/	II
Germany	67870	Bayerischer Wald Nature Park Deilanderregion	V
	64659	Böhmerwald Biosphere Reserve	Pr
Austria/	31402	Kalkhochalpen Nature Reserve/	IV
Germany	688	Berchtesgaden National Park	II
Austria/	1218	Neusiedlersee Nature Reserve	IV
	62709	Neusiedlersee - Seewinkel National Park	II
	102857	Neusiedler See und Umgebung Protected Landscape Area/	V
Hungary	9566	Fertő Hanság National Park	II
Austria/	18769	Donau-Auen National Park	II
	31412	Donau-March Protected Landscape Area	V
	68341	Auen Protected Landscape Area	V
	1220	Marchaven-Marchegg NSG Nature Reserve	Un
	31408	Untere Marchauen Nature Reserve/	IV
Slovakia	19034	Slovakia Zahorie CHKO Protected Landscape Area	V
	12155	Male Karpaty Protected Landscape Area	V
Belarus/	1985	Belovezhskaya Puscha National Park/	II
Poland	854	Bialowiecki National Park	II
Belarus/	1644	Pripiatsky National Park/	Ib
Ukraine	1749	Polesky Nature Reserve	Ia
Belgium/	18950	Hautes Fagnes Eifel Nature Park/	V
Germany	6971	Nordeifel Nature Park	V
Bosnia-Herzegovina/	1055	Sutjeska National Park/	II
Yugoslavia (Montenegro)	15596	Tara National Park	II
	1051	Durmitor National Park	II
Croatia/	15605	Kopacki Rit Special Reserve	Ia
	15602	Kopacki Rit Nature Park/	V
Hungary	9683	Mohácsi Történelmi Emlékhegy Nature Conservation Area	IV
	100798	Duna-Dráva National Park	V
Czech Republic/	4275	Protected Landscape Area Labské Piskovce/	V
Germany	32666	Sächsische Schweiz National Park	V
	11800	Sächsische Schweiz Protected Landscape Area	V
Czech Republic/	645	Krkonoše National Park	V
		Protected Landscape Area Iser Mountains/	
Poland	852	Karkonoski National Park	II
Czech Republic/	4267	Beskydy Protected Landscape Area/	V
Poland/	12270	Zywiecki Park Krajobrazowy/	V
Slovakia	11812	Protected Landscape Area Kysuce CHKO	V
Czech Republic/	12154	Protected Landscape Area White Carpathians/	V
Slovakia	12159	Biele Karpaty Protected Landscape Area	V

Countries	WCMC Code	Designated Areas	IUCN Category
Denmark/	92491	Waddensea Nature Reserve	
	5762	Vadehavet Wildlife Reserve	IV
	17703	Vadehavet Conservation Area	V
	64575	Vadehavet National Nature Area/	IV
Germany/	4380	Rantumbecken Nature Reserve	IV
	1541	Nord-Sylt Nature Reserve	IV
	33391	Hossteinische Schweiz Nature Park	V
	32669	Schleswig-Holsteinisches Wattenmeer National Park	V
	11837	Niedersaahsisones Wattenmeer National Park	V
	30116	Dollart Nature Reserve	IV
	82256	Nordfriesisches Wattenmeer Nature Reserve/	IV
Netherlands	64617	Dollard Nature Reserve	
	12754	Waddensea Area Biosphere Reserve	n/a
Finland/	654	Lemmenjoki National Park/	II
Norway	822	Ovre Annarjakka National Park	II
Finland/		Kasivarsi Wildermess Area/	
Norway	12297	Reisa National Park Raisdoutterhaldi Protected Landscape Area	II
Finland/		Vätsäri Wildermess Area/	
Norway/	832	Ovre Pasvik National Park & Reserve/	II
Russian Federation	62446	Pasvik Zapovednikovednik	Ia
Finland/	656	Oulanka National Park/	II
Russian Federation	68351	Paanajärvi	II
Finland/	2561	Urho Kekkonen National Park/	IV
Russian Federation	1700	Laplandskiy Zapovednik	Ia
Finland/		Friendship Nature Reserve, Kainou Park Elimussalo Nature Reserve Lehtua Nature Reserve	Ia IV IV
	1523	Ulvinsalo Strict Nature Reserve	Ia
	102007	Juortansalo-Lapino Protected Mire	IV
	102041	Lososuo-Saarijärvi Protected Mire Iso-Palonen & Maariansarkat Nature Reserve/	IV
Russian Federation	13988	Kostomukskiy Zapovednik	Ia
Finland/	40928	Perameri National Park/	II
Sweden	30811	Haparanda Archipelago National Park	Pr
	1397	Haparanda-Sandskar Nature Reserve	IV
	106872	Haparanda Skärgård National Park	II
France/	6307	Vosges du Nord Regional Nature Park/	V
Germany	81245	Pfälzerwald Nature Park	
France/	661	Vanoise National Park	II
	10350	Vanoise National Park Buffer Zone/	V
Italy	718	Gran Paradiso National Park	V
France/	664	Mercantour National Park/	II
Italy	14618	Maritime Alps National Park	V
France/	662	Pyrenees Occidentales National Park	II
	703151	Pyrennes Occidentales National Park BZ/	
Spain	893	Ordessa y Monte Perdido National Park	II
Hungary/	13652	Aggtelek National Park/	II
Slovakia	4376	Slovenský Kras CHKO Protected Landscape Area	V
Hungary/	30853	Karancs-Madves Protected Area	V
	680	Bükki National Park/	II
Slovakia	14146	Protected Landscape Area Cerová Vrchovina	V

Countries	WCMC Code	Designated Areas	IUCN Category
Italy/	15346	Foresta Di Tarvisio Nature Reserve Regional Park Alpi Giulie/	Un
Slovenia	2517	Triglavski National Park	II
Italy/	717	Stelvio National Park/	V
Switzerland	915	Suisse National Park	Ia
Lithuania/	31552	Kursiu Nerija National Park/	II
Russian Federation	68348	Kurshaskayja Kosa National Park	II
Former Yugoslav Republic of Macedonia/	1050	Mavrovo National Park/	II
Yugoslavia (Serbia)		Shara Mountains National Park	
Norway/	829	Rago National Park Pr. Tysfjord Hellembotn National Park/	II
Sweden	905	Padjelanta National Park	II
	906	Sarek National Park	II
	3998	Stora Sjöfallet National Park	V
	30818	Sjaunja Nature Reserve	Pr
Norway/	826	Fernundsmarka National Park	II
	9906	Fernundsmarka Protected Landscape Area	V
	833	Gutulia National Park/	II
Sweden	10401	Rogen Nature Reserve	IV
	30816	Rogen-Langfallet National Park	Pr
Norway/	125857	Lunddsneset Nature Reserve/	Ia
Sweden	30821	Tresticklan National Park	
Poland/	848	Tatrzański National Park/	II
Slovakia	1975	Tatranský National Park	II
Poland/	106887	Babiogorski National Park/	II
Slovakia	12160	Horná Orava CHKO Protected Landscape Area	V
	14115	Babia Hora National Nature Reserve	Ia
Poland/	857	Pieninski National Park/	II
Slovakia	646	Pieninski National Park	II
Poland/	851	Bieszczadski National Park Magura National Park	II
	67746	E. Carpathian - E Beskeid? Biosphere Reserve/	n/a
Slovakia/	67750	E. Carpathians Biosphere Reserve	n/a
	12157	Vychodne Karpaty CHKO Protected Landscape Area/	V
Ukraine	1990	Karpatskiy National Biosphere Reserve, Zapovednik	Ia
	1745	Karpatskiy National Nature Park	II
Portugal/	860	Peneda-Geres National Park/	II
Spain	71215	Baixa-Lima-Serra do Xures Natural Park	V
Romania/	28791	Danube Delta Biosphere Reserve	n/a
	31702	Rosca-Buhaiova National Reserve	Ia
	31703	Letea Nature Reserve/	Ia
Ukraine	4814	Dunaiskie Playni Nature Zapovednik.	Ia
Romania/	11150	Cazanele Forest Reserve/	IV
Yugoslavia	2522	Djerdap National Park	V
Africa			
Angola/	347	Iona National Park	VI
	2251	Mocamedes Parital Reserve/	IV
Namibia	885	Skeleton Coast Game Park	II
Angola/	4493	Mucusso National Park Luiana Partial Reserve/	IV
			IV
Namibia/	7442	W. Caprivi Game Reserve/	VI
Zambia	30052	Mamili National Park	II

Countries	WCMC Code	Designated Areas	IUCN Category
Angola/	4493	Luiana Partial Reserve/	IV
Zambia	1087	Sioma Ngweze National Park	II
	4081	West Zambezi Game Management Area	VI
Benin/	597	Boucle de la Pendjari National Park	II
	2253	Pendjari Hunting Zone	VI
	2254	Atakora Hunting Zone/	VI
Burkina Faso	3228	Pama Partial Faunal Reserve	IV
	3226	Arly Total Faunal Reserve	IV
	9264	Arly Partial Faunal Reserve	IV
	4488	Kourtiagou Partial Faunal Reserve	IV
Benin/	12201	"W" du Benin National Park/	II
Burkina Faso/	1048	"W" du Burkina Faso National Park	II
	4488	Kourtiagou Partial Faunal Reserve/	IV
Niger	818	"W" du Niger National Park	II
Botswana/	7508	Gemsbok National Park/	II
Namibia/	97586	Kalahari Private Reserve/	Un
South Africa	874	Kalahari Gemsbok National Park	II
Botswana/		Northern Tuli Game Reserve/	
South Africa/	21174	Vhembe-Dongola Nature Reserve/	IV
Zimbabwe	3059	Tuli Safari Area	VI
Burundi/	9161	Kibira National Park/	IV
Rwanda	9148	Nyungwe Forest Reserve	IV
Cameroon/		Lake Lobeke/	Pr
Central African Republic/	31458	Dzanga-Ndoki National Park	II
	31459	Dzanga Sangha Forest Special Reserve/	VI
Republic of Congo	72332	Nouabalé Ndoki National Park	II
Cameroon/	20058	Korup National Park/	II
Nigeria	20299	Cross River National Park	II
Central African Republic/	2261	Yata-Ngaya Faunal Reserve/	IV
Sudan	5090	Radom National Park	II
Côte d'Ivoire/	1295	Mont Nimba Strict Nature Reserve/	Ia
Guinea/	29067	Mont Nimba Strict Nature Reserve/	Ia
Liberia	9176	E. Nimba National Forest	Un
	20175	W. Nimba National Forest	Un
Gambia/	2290	Niomi National Park/	II
Senegal	866	Delta (Iles) du Saloum National Park	II
Guinea/	29069	Badiar National Park	II
	29409	Badiar-Sud Classified Forest/	Un
Senegal	865	Niokola Koba National Park	II
Kenya/	1297	Maasai Mara National Park/	II
Tanzania	7437	Maswa Game Reserve	IV
	916	Serengeti National Park	II
	918	Ngorongoro Crater Conservation Area	VI
Kenya/	2417	Boni National Reserve/	VI
Somalia	13715	Juba Left Controlled Hunting Area	Un
	872	Lag Badana National Park	Pr.
	13710	Bushbush Game Reserve	VI
	13714	Bushbush Controlled Hunting Area	
Kenya/	19564	Tsavo West National Park/	II
Tanzania	1402	Mkomazi Game Reserve	IV
	7433	Umba Game Reserve	IV

Countries	WCMC Code	Designated Areas	IUCN Category
Kenya/	758	Amboveli National Park	II
	7633	Loitokitok Forest Reserve/	Un
Tanzania	922	Kilimanjaro National Park	II
	31593	Kilimanjaro Game Reserve	IV
Kenya/	760	Mount Elgon National Park/	II
Uganda	9179	Sebei Controlled Hunting Area	VI
Malawi/	779	Nyika National Park/	II
Zambia	1102	Nyika National Park	II
Malawi/	4648	Vwaza Marsh Wildlife Reserve/	IV
Zambia	4102	Musalangu Game Management Area	VI
Malawi/	780	Kasungu National Park/	II
Zambia	1088	N Luangwa National Park	II
	1086	S Luangwa National Park	II
	1100	Luambe National Park	II
	1091	Lukusuzi National Park	II
Mauritania/	9310	Diawling National Park/	II
Senegal	867	Djoudj National Park	II
	11653	Gueumbeul Special Faunal Reserve	IV
Mozambique/	4652	Maputo Game Reserve/	IV
South Africa/	116329	Ndumu Game Reserve	II
	39758	Tembe Elephant Park Reserve/	IV
Swaziland		Hlane National Park, Mlawula Nature Reserve	
Mozambique/	20295	Limpopo Valley Wildlife Utilization Area	VI
	800	Zinhave National Park	II
	799	Banhine National Park/	II
South Africa/	873	Kruger National Park/	II
Zimbabwe	1104	Gonarezhou National Park	II
Namibia/	8785	Ai-Ais Hot Springs Game Park	II
		Fish River Canyon/	
South Africa	30851	Richtersveld National Park	II
Rwanda/	863	Volcans National Park/	II
Uganda/	18436	Mgahinga Gorilla National Park	II
	18437	Bwindi Impenetrable Forest National Park/	II
Zaire	1081	Virunga National Park	II
	20331	Rutshuru Hunting Zone	VI
Sudan/	904	Nimule National Park/	II
Uganda	7933/	Otze- Dufile Wildlife Sanctuary	IV
	31275	Otze Forest Forest Reserve	Un
	64700	Mount Kei White Rhino Sanctuary	IV
	3276		
Sudan/	1369	Kidepo Game Reserve/	VI
Uganda	958	Kidepo Valley National Park	II
Sudan/	10737	Lantoto National Park/	Pr.
Democratic Republic of the Congo (Zaire)	1083	Garamba National Park	II
	20036	Mondo Misso Hunting Zone	VI
Uganda/	18438	Rwenzori Mountains	II
	9184	Semliki Controlled Hunting Area	VI
	1446	Kyambura Game Reserve/	II
Zaire	1081	Virunga National Park	IV

Countries	WCMC Code	Designated Areas	IUCN Category
Zambia/	7692	Lower Zambezi National Park/	II
Zimbabwe	2531	Mana Pools National Park	II
	2524	Charara Safari Area	VI
		Sapi , Chewore, Dande Special Areas	VI
Zambia/	2347	Mosi-oa-Tunya National Park	III
	62183	Victoria Falls National Monument/	III
Zimbabwe	1993	Victoria Falls National Park	III
	2530	Zambezi National Park	II
Asia			
Bangladesh/	4478	Sundarbans W. Wildlife Sanctuary/	IV
India	9960	Sundarbans National Park/	Ia
Bhutan/	7996	Royal Manas/	II
India	1818	Manas Sanctuary	IV
	9232	Buxa Sanctuary	IV
	62663	Buxa National Park	Un
Brunei Darussalam/	39641	Labi Hills	Ia
	18035	Labi Hills	V
		Labi Hills/	Un
Malaysia	3790	Gading Forest Reserve	
	3939	Gunung Gading National Park	II
Brunei Darussalam/	32948	Sungei Ingei Conservation Area	Ia
	3937	Ensengi Forest Reserve/	Un
Malaysia	787	Gunung Mulu National Park	II
Cambodia/	12249	Preh Vihear Protected Landscape/	V
Thailand		Yot Dom	
	1415	Phanom Dong Rak Wildlife Sanctuary	IV
Cambodia/	68862	Virachey National Park/	II
Laos/	18872	Dong Ampham Nature Reserve	VI
		Nam Kong Nature Reserve	Pr
		Altopcu/	Pr
Viet Nam	12171	Mom Ray Nature Reserve	IV
China/	95461	Jingpo Lake Nature Reserve	II
	95460	Mudan Peak Nature Reserve	VI
	96016	Changbai Mountains Biosphere Reserve/	n/a
N. Korea/	17908	Paekdu Mountain Nature Protection Area/	IV
Russian Federation	1726	Kedrovaya Pad Zapovednik	Ia
China/	96064	Dalai Lake Nature Reserve/	IV
Mongolia/	93538	Mongul Daguur Strict Protected Area/	Ib
Russian Federation	62684	Daurskiy Zapovednik	Ia
China (Tibet)/	95785	Zhu Feng Nature Reserve	Ib
	95784	Jiang Cun Nature Reserve/	VI
Nepal	804	Sagarmatha National Park	II
	803	Langtang National Park	II
	26606	Makalu-Barun National Park	II
	26605	Makalu-Barun Conservation Area	IV
China/	96118	Ta Shi Ku Er Gan Nature Reserve/	Ib
Pakistan	836	Khunjerab National Park	II
China/	95476	Xing Kai Lake Nature Reserve/	VI
Russian Federation	62691	Khankaiskiy Zapovednik.	Ia

Countries	WCMC Code	Designated Areas	IUCN Category
China/	95471	Hunhe Nature Reserve Hong River Nature Reserve/	VI
Russian Federation	1715	Bol'shekhehtsizskiy Zapovednik	Ia
China (Guangxi)/	95872	Gu Long Mountain Shui Yuan Lin	VI
	95618	Xia Lei Shui Yuan Lin Nature Reserve/	VI
Viet Nam	10360	Trungkhanh	IV
China/	99776	Guan Yin Mountain Nature Reserve	
	95742	Fen Shui Ling Peak Nature Reserve/	VI
Viet Nam	10357	Hoang Lien Son #2	IV
India/	1807	Katamiaghat Sanctuary	IV
	691	Dhudhwa National Park/	II
Nepal	1308	Royal Bardia National Park	II
India/	4578	Valmiki Sanctuary	IV
	12414	Sohagibarwa Sanctuary	IV
	4543	Udaipur Sanctuary/	IV
Nepal	805	Royal Chitwan National Park	II
India/	19683	Kachchh Desert Sanctuary/	IV
Pakistan	6684	Rann of Kutch Wildlife Sanctuary	IV
Indonesia (Kalimantan)/	8673	Gunung Bentang Karimura National Park/	II
Malaysia (Sarawak)	1300	Lanjak Entimau Wildlife Sanctuary	IV
	12250	Batang Ai National Park	II
Indonesia/	29966	Wasur National Park/	II
Papua New Guinea	4200	Tonda Wildlife Management Area	VI
	4202	Maza Wildlife Management Area	VI
Kyrgyz Republic/	1675	Besharalsky Zapovednik./	Ia
Uzbekistan	1761	Ugam-Chatkal National Park	Ia
Laos/	18893	Phou Xiang Thong National biodiversity Conservation Area/	VI
Thailand	39518	Pha Tam National Park	II
	4674	Kaeng Tana	II
Laos/	61496	Nam Et National Biodiversity Conservation Area/	VI
Viet Nam	10363	Sop Cop Nature Reserve	IV
Laos/	12182	Phou Dene Dinh National Biodiversity Conservation Area/	VI
Viet Nam	10362	Muong Nhe Nature Reserve	IV
Malaysia (Sabah)/	793	Pulau Penya Park/	II
Philippines	14758	Turtle Island Marine Sanctuary	IV
Mongolia/	93566	Uvs Nuur Basin Strict Protected Area/	Ia
Russia	67722	Ubsunurskaya Kotlovina	Ia
Mongolia/	93579	Khovsgul Nuur National C Park/	II
Russia	68356	Turkinskiy National Park	II

Key to IUCN category field:

Pr proposed protected area

n/a not applicable (as in the case of internationally designated sites, such as biosphere reserves)

Un unassigned (not assigned to a category because the designation/site does not meet IUCN's definition of a protected area)

blank category not yet assigned (often due to inadequate information)

Transfrontier Protected Areas North America

PROTECTED AREAS

Map Ref.	Site Code	Name of Area
CANADA		
61	21193	Akamina Kishinena
62	4185	Cathedral
63	65159	Culture Lake
64	18848	E.C. Manning
65	100672	Ikwak
66	612	Kluane
67	18707	Kluane
68	66395	Quebec Wilderness
69	101678	Skegitt Valley
70	100873	Vuntut
71	826	Waterton Lakes
MEXICO		
205	01409	Alto Golfo de California y Delta R. Colorado
206	87871	Bonampak
208	19370	Calakmul
209	101457	Cañon Santa Helena
210	32971	El Pinacate y Gran Desierto de Altar
211	14305	Montes Azules (Sierra Lacandonia)
212	101431	Sierra de Maderas del Carmen
213	180951	Sierra del Pinacate
UNITED STATES		
336	2904	Arctic
337	976	Big Bend
338	21322	Boundary Waters Canoe Area
339	35472	Cabeza Prieta
340	13771	Cabeza Prieta
341	973	Glacier
342	1010	Glacier Bay
343	35382	Glacier Bay
344	979	North Cascades
345	1020	Organ Pipe Cactus
346	21389	Passayen
348	13038	Tongass
349	988	Voyageurs
350	1005	Wrangell-St. Elias
351	35387	Wrangell-St. Elias



WORLD CONSERVATION
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Transfrontier Protected Areas Central and South America

PROTECTED AREAS

Map Site
Ref. Code Name of Area

ARGENTINA

- 4 16875 Chañy
- 5 30844 Complejo Islote Lobos
- 6 16873 Copahue - Caviahue
- 7 15 Iguaçu
- 8 61817 Iguaçu
- 9 7 Lanín
- 10 61820 Lanín
- 11 4329 Los Glaciares
- 12 97523 Nahuel Huapi
- 13 97490 Nahuel Huapi
- 14 2497 Nahuel Huapi -1

BELIZE

- 25 61957 Aguas Turbias
- 26 20230 Chiquibul
- 27 3314 Columbia River
- 28 28850 Maya Mountains
- 29 20224 Rio Bravo
- 30 116297 Vaca Conservation Area

BOLIVIA

- 36 20035 Altamachi Vicuña
- 37 36 Eduardo Avaroa
- 38 20036 Huancaroma Vicuña
- 39 20049 Itenez
- 40 98183 Madidi
- 41 33 Sajama

BRAZIL

- 44 41090 Baixo Sao Miguel
- 45 5126 Guapore
- 46 60 Iguaçu
- 47 34028 Pedras Negras
- 48 54 Pico da Neblina

CHILE

- 75 9414 Bernardo O'Higgins
- 76 9418 Huerquehue
- 77 9435 Las Vicuñas
- 78 86 Lauca
- 79 30043 Los Flamencos
- 80 111 Nuble
- 81 90 Puyehue
- 82 89 Torres del Paine
- 83 88 Vicente Pérez Rosales
- 84 91 Villarrica
- 85 10706 Villarrica

COLOMBIA

- 98 19993 Catatumbo-Bari
- 99 9400 La Paya
- 100 142 Los Katios
- 101 144 Tamá

COSTA RICA

- 107 12493 Barra del Colorado
- 108 19402 Gandoca y Manzanillo
- 109 2553 La Amistad (Talamanca)
- 110 12491 Las Tablas
- 111 167 Tortuguero
- 112 30599 Tortuguero

ECUADOR

- 128 2499 Cuyabeno
- 129 186 Yasuni

EL SALVADOR

- 130 9638 Montecristo

GUATEMALA

- 155 102815 Fraternidad o Trifinio
- 347 30604 Mirador - Rio Azul
- 156 102817 Naachtún - Dos Lagunas

HONDURAS

- 159 18804 Montecristo-Trifinio
- 160 41013 Patuca
- 161 40996 Rio Negro

NICARAGUA

- 231 12652 Estero Real
- 232 30628 Rio Indio Maiz

PANAMA

- 245 236 Darién
- 246 16787 Isla Bastimentos
- 247 2552 La Amistad
- 248 102253 Lagunas de Volcán
- 249 17185 Palo Seco

PERU

- 252 249 Pacaya Samiria

SURINAME

- 305 276 Sipaliwini

VENEZUELA

- 353 101129 Cerro Machado - El Silencio
- 354 322 El Tama
- 355 318 Perijá
- 356 20068 Región Lago de Maracaibo, Sierra de Perijá
- 357 30640 San Antonio - Uraña
- 358 4367 Serranía de la Neblina



Projection Lambert Azimuthal
Date Printed: Jan 1998

WORLD CONSERVATION
MONITORING CENTRE

Northern Asia

Transfrontier Protected Areas

PROTECTED AREAS

Map Ref.	Site Code	Name of Area
CHINA		
86	96016	Chang Bai Shan
87	96064	Da Lai Hu
88	95742	Fen Shui Ling Feng
89	95872	Gu Long Shan Shui Yuan Lin
90	95471	Hong He
91	95784	Jiang Cun
92	95461	Jing Bo Hu
93	95460	Mu Dan Feng
94	96118	Ta Shi Ku Er Gan
95	95618	Xia Lei Shui Yuan Lin
96	95476	Xing Kai Hu
97	95785	Zhang Mu
KYRGYZSTAN		
188	1675	Besh-Arai'skiy
MONGOLIA		
214	93579	Khovsgul Nuur
215	93538	Mongol Daguur
216	93566	Uvs Nuur Basin
RUSSIA		
265	1715	Boishekhehtsirskiy
266	62684	Daur'skiy
267	1726	Kedrovaya Pad
268	62691	Khankalskiy
269	13968	Kostomukshskiy
270	66348	Kurshskaya Kosa
271	1700	Laplanskiy
272	89351	Paanayarvi
273	62446	Pasvik
274	86356	Tunkinskiy
275	67722	Ubsunur'skaya Kollovina
UZBEKISTAN		
352	1761	Chalkalskiy



WORLD CONSERVATION
MONITORING CENTRE

Projection Lambert Azimuthal
Date Printed Jan 1998

Transfrontier Protected Areas

Southern Asia



MALAYSIA
 12250 Betang Ai
 200 Gunung Gading
 201 Gunung Mulu
 202 Langak-Linimau
 203 Pulau Penyu
 204 (Turtle Islands)
NEPAL
 803 Langtang
 225 Makalu-Barun
 226 Makalu-Barun
 227 Royal Bardia
 228 Royal Chitwan
 229 Sagarmatha
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PROTECTED AREAS		
Map Ref.	Site	Name of Area
168	9232	Buxa
169	691	Dudwa
170	19683	Kachchh Desert
171	1807	Katmariaghat
172	1818	Manas
173	4578	Shill
174	12414	Schagbarwa
175	9960	Sundarbans
176	4543	Udaipur
INDONESIA		
177	8673	Gunung Bentuang
178	29956	Waser
KOREA, DEMOCRATIC PEOPLE'S REP.		
187	17908	Mount Paekdu
LAOS		
189	18872	Dong Ampham
190	61486	Nam Et
191	12182	Phou Dene Diph
192	18893	Phou Xiang Thong
CAMBODIA		
58	12249	Preah Vihear
59	68862	Virachey



WORLD CONSERVATION
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PROTECTED AREAS			Map Ref.			Site Code			Name of Area			Country			Site Code			Name of Area			Country																																																					
ITALY	179	14618	Argentera	180	718	Gran Paradiso	181	717	Stelvio	182	717		LITHUANIA	193	31552	Kursiu nerija	194	2516	Gaičichia	195	1050	Mavovo	196	1056	Peister																																																	
MACEDONIA	235	826	Femundsmarka	236	9906	Femundsmarka	237	833	Gutula	238	125857	Lundneset	239	822	Ovre Anariokka	240	832	Ovre Pasvik	241	829	Hago	242	12297	Heisa																																																		
POLAND	253	106887	Babiogorski	254	854	Bialowski	255	851	Bieszczadzki	256	852	Karkonoski	257	857	Pleninski	258	848	Tatrzanski	259	12270	Zywiecki	260	860	Peneda Gerês																																																		
PORTUGAL	261	11150	Cazanele (Danube River)	262	28791	Danube Delta	263	31703	Lelea	264	31702	Rosca-Buhavova	265	14115	Babia hora	266	12159	Biele Karpaty	267	14146	Cerova vrchovina	268	11612	Kysuca	269	12155	Male Karpaty	270	646	Pininsky	271	4376	Slovenaky kras	272	1975	Tatransky	273	12157	Vychodna Karpaty	274	19034	Zahorie																																
SLOVAKIA	282	14115	Babia hora	283	12159	Biele Karpaty	284	14146	Cerova vrchovina	285	12160	Horna Drava	286	11612	Kysuca	287	12155	Male Karpaty	288	646	Pininsky	289	4376	Slovenaky kras	290	1975	Tatransky	291	12157	Vychodna Karpaty	292	19034	Zahorie																																									
SPAIN	293	2517	Triglavski	301	893	Ordesa y Monte Perdido	306	106872	Haparanda skärgård	307	1397	Haparanda Sandskär	308	905	Padjelanta	309	10401	Rogen	310	906	Sorok	311	3908	Sora Spjallet	312	915	Swiss	322	4814	Dunaskie Plavni	323	1990	Karpatsky	324	1745	Karpatsky	325	1749	Polesky	326	2522	Dierdap (Serbia)	327	1051	Durmitor (Montenegro)	328	15396	Tara (Serbia)																										
SWEDEN	306	106872	Haparanda skärgård	307	1397	Haparanda Sandskär	308	905	Padjelanta	309	10401	Rogen	310	906	Sorok	311	3908	Sora Spjallet	312	915	Swiss	322	4814	Dunaskie Plavni	323	1990	Karpatsky	324	1745	Karpatsky	325	1749	Polesky	326	2522	Dierdap (Serbia)	327	1051	Durmitor (Montenegro)	328	15396	Tara (Serbia)																																
GERMANY	143	64659	Bayerischer Wald	144	30119	Dollart	145	33391	Holsteinsche Schweiz	146	11837	Niederholsteins Wattenmeer	147	1541	Nord-Sylt	148	6971	Norddeich	149	82256	Nordfriesisches Wattenmeer	150	4380	Rantumhoek	151	11800	Schlesische Schweiz	152	32668	Schlesische Schweiz	153	32669	Schlesing-Horsteinisches Wattenmeer	154	874	Prespos	155	13852	Aggleki	156	1890	Bukki	157	100708	Dunabe-Drava	158	30653	Peto-tavi	159	30653	Karancs-Medves	160	30653	Mohacsi-Tortenalmi	161	30653	Emlekely																	
FRANCE	664	Mercantour	665	Pyrenées Occidentales	666	Volp	667	Volp	668	Volp	669	Volp	670	Volp	671	Volp	672	Volp	673	Volp	674	Volp	675	Volp	676	Volp	677	Volp	678	Volp	679	Volp	680	Volp	681	Volp	682	Volp	683	Volp	684	Volp	685	Volp	686	Volp	687	Volp	688	Volp	689	Volp	690	Volp	691	Volp	692	Volp	693	Volp	694	Volp	695	Volp	696	Volp	697	Volp	698	Volp	699	Volp	700	Volp

Transfrontier Protected Areas Africa

PROTECTED AREAS

Map Site
Ref. Code Name of Area

- | | | | |
|--------------------------------------|-----|-------|-----------------------|
| ANGOLA | 1 | 347 | Iona |
| | 2 | 4493 | Luliana |
| BENIN | 3 | 2251 | Mocamedes |
| | 31 | 2254 | Atakora |
| | 32 | 597 | Boucie de la Pendjari |
| | 33 | 2253 | Pendjari |
| BOTSWANA | 34 | 12201 | W (Benin) |
| | 43 | 7508 | Gamsbok |
| BURKINA FASO | 52 | 9284 | Arty |
| | 53 | 4488 | Arty |
| | 54 | 3228 | Kourtiagou |
| | 55 | 3228 | Panna |
| | 58 | 1048 | W di Burkina Faso |
| BURUNDI | 57 | 9161 | Kibira |
| CAMEROON | 60 | 20058 | Korup |
| CENTRAL AFRICAN REPUBLIC | 72 | 31458 | Drang-Ndoki |
| | 73 | 31459 | Dzanga-Sangha |
| | 74 | 2261 | Yata-Ngaya |
| CONGO | 102 | 72332 | Nouabale-Ndoki |
| CONGO, DEM. REP. of (formerly ZAIRE) | 103 | 1063 | Garamba |
| | 104 | 20331 | Ruisshuru |
| | 105 | 1081 | Virunga |
| COTE D'IVOIRE | 113 | 1295 | Mont Nimba |
| GAMBIA | 142 | 2290 | Niumi/Sine Saloum |
| GUINEA | 157 | 29069 | Badier |
| | 158 | 29067 | Mount Nimba |
| KENYA | 182 | 758 | Amboseli |
| | 183 | 2417 | Boni |
| | 184 | 1297 | Masai Mara |
| | 185 | 760 | Mount Elgon |
| | 186 | 19564 | Tsavo West |
| MALAWI | 197 | 780 | Kasungu |
| | 198 | 779 | Nyika |
| | 199 | 4648 | Vwaza Marsh |
| MAURITANIA | 205 | 9310 | Dawling |
| MOZAMBIQUE | 217 | 799 | Banhine |
| | 218 | 20295 | Limpopo Valley |
| | 219 | 4652 | Maputo |
| | 220 | 800 | Zinave |
| NAMIBIA | 221 | 8785 | At-Ais Hot Springs |
| | 222 | 7442 | Caprivi |
| | 223 | 30052 | Mamili |
| | 224 | 885 | Skeleton Coast |

- | | | | |
|--------------|-----|--------|------------------|
| NIGER | 233 | 818 | W du Niger |
| NIGERIA | 234 | 20299 | Cross River |
| RWANDA | 276 | 9148 | Nyungwe |
| | 277 | 863 | Volcans |
| SENEGAL | 278 | 866 | Delta du Saloum |
| | 279 | 867 | Djoudi |
| | 280 | 11653 | Gueunbeu Special |
| SOMALIA | 281 | 865 | Niokolo-Koba |
| SOUTH AFRICA | 294 | 13710 | Bushbush |
| | 295 | 874 | Kalahari Gamsbok |
| | 296 | 873 | Kruger |
| | 297 | 116329 | Ndumu |
| | 298 | 30851 | Richtersveld |
| | 299 | 39758 | Temba Elephant |
| | 300 | 21174 | Vhembe |
| SUDAN | 302 | 1369 | Kidepo |
| | 303 | 904 | Nimule |
| SURINAME | 304 | 5090 | Radom |
| TANZANIA | 305 | 276 | Sipaliwini |
| | 313 | 922 | Kilimanjaro |
| | 315 | 91593 | Kilimanjaro |
| | 316 | 7437 | Naawa |
| | 317 | 1402 | Mkonazi |
| | 318 | 916 | Serengeti |
| | 319 | 7433 | Umba |



WORLD CONSERVATION
MONITORING CENTRE

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|----------|-------|----------------------------|
| UGANDA | 18437 | Bwindi Impenetrable Forest |
| | 323 | 324 |
| | 325 | 18438 |
| | 326 | 958 |
| | 327 | 1446 |
| | 328 | 31275 |
| | 329 | 18438 |
| | 330 | 9179 |
| | 331 | 9184 |
| ZAMBIA | 367 | 1100 |
| | 368 | 1091 |
| | 369 | 2347 |
| | 370 | 4102 |
| | 371 | 1088 |
| | 372 | 1102 |
| | 373 | 1087 |
| | 374 | 1086 |
| | 375 | 62183 |
| | 376 | 1081 |
| ZIMBABWE | 377 | 2524 |
| | 378 | 1104 |
| | 379 | 2331 |
| | 380 | 3059 |
| | 381 | 1993 |
| | 382 | 2530 |

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Transfrontier Protected Areas Europe



WORLD CONSERVATION
MONITORING CENTRE

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PROTECTED AREAS

Map Ref.	Site Code	Name of Area	Italy
16	31412	Donau-March-Thaya-Auen	14618 Argentera
17	31402	Kalkhochalpen	179 Gran Paradiso
18	62709	Neusiedler See - Seewinkel	718 Stelvio
19	1218	Neusiedlersee	181 Kursu nerija
20	31408	Untere Marchauen	193 31552
21	1985	Belovezhskaya Pushcha	MACEDONIA
22	1644	Pripjatskyj	194 Galichica
23	1644	Pripjatskyj	195 2516
24	18850	Hautes-Fagnes-Eifel	196 1056
25	1055	Sutjeska	197 Pelister
26	1055	Sutjeska	235 826
27	1055	Sutjeska	236 9906
28	1055	Sutjeska	237 833
29	1055	Sutjeska	238 125857
30	1055	Sutjeska	239 822
31	1055	Sutjeska	240 832
32	1055	Sutjeska	241 829
33	1055	Sutjeska	242 12297
34	1055	Sutjeska	253 108887
35	1055	Sutjeska	254 854
36	1055	Sutjeska	255 851
37	1055	Sutjeska	256 852
38	1055	Sutjeska	257 857
39	1055	Sutjeska	258 848
40	1055	Sutjeska	259 12270
41	1055	Sutjeska	260 860
42	1055	Sutjeska	261 11150
43	1055	Sutjeska	262 28791
44	1055	Sutjeska	263 31703
45	1055	Sutjeska	264 31702
46	1055	Sutjeska	265 14115
47	1055	Sutjeska	266 14115
48	1055	Sutjeska	267 14115
49	1055	Sutjeska	268 14115
50	1055	Sutjeska	269 14115
51	1055	Sutjeska	270 14115
52	1055	Sutjeska	271 14115
53	1055	Sutjeska	272 14115
54	1055	Sutjeska	273 14115
55	1055	Sutjeska	274 14115
56	1055	Sutjeska	275 14115
57	1055	Sutjeska	276 14115
58	1055	Sutjeska	277 14115
59	1055	Sutjeska	278 14115
60	1055	Sutjeska	279 14115
61	1055	Sutjeska	280 14115
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79	1055	Sutjeska	298 14115
80	1055	Sutjeska	299 14115
81	1055	Sutjeska	300 14115
82	1055	Sutjeska	301 893
83	1055	Sutjeska	302 106872
84	1055	Sutjeska	303 1397
85	1055	Sutjeska	304 905
86	1055	Sutjeska	305 10401
87	1055	Sutjeska	306 906
88	1055	Sutjeska	307 3998
89	1055	Sutjeska	308 915
90	1055	Sutjeska	309 4814
91	1055	Sutjeska	310 1990
92	1055	Sutjeska	311 1745
93	1055	Sutjeska	312 1749
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131	1055	Sutjeska	350 1749
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147	1055	Sutjeska	366 1749
148	1055	Sutjeska	367 1749
149	1055	Sutjeska	368 1749
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151	1055	Sutjeska	370 1749
152	1055	Sutjeska	371 1749
153	1055	Sutjeska	372 1749
154	1055	Sutjeska	373 1749
155	1055	Sutjeska	374 1749
156	1055	Sutjeska	375 1749
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158	1055	Sutjeska	377 1749
159	1055	Sutjeska	378 1749
160	1055	Sutjeska	379 1749
161	1055	Sutjeska	380 1749
162	1055	Sutjeska	381 1749
163	1055	Sutjeska	382 1749
164	1055	Sutjeska	383 1749
165	1055	Sutjeska	384 1749
166	1055	Sutjeska	385 1749
167	1055	Sutjeska	386 1749

Transfrontier Protected Areas North America

PROTECTED AREAS

Map Site
Ref. Code Name of Area

CANADA

61 21193 Akamina Kishineau
62 4185 Cathedral
63 65159 Cultus Lake
84 18646 E.C. Manning
85 100672 Ivvavik
86 612 Klusane
87 18707 Kluane
88 66395 Quetico Wilderness
89 101678 Skagit Valley
70 100873 Vuntut
71 626 Waterton Lakes

MEXICO

206 101409 Alto Golfo de California y Delta R Colorado
207 67671 Bonampak
208 19570 Calakmul
209 101457 Cañón Santa Helena
210 32971 El Pinacate y Gran Desierto de Altar
211 14305 Montes Azules (Selva Lacandona)
212 101431 Sierra de Madres del Carmen
213 18091 Sierra del Pinacate

UNITED STATES

336 2904 Arctic
337 976 Big Bend
338 21322 Boundary Waters Canoe Area
339 35472 Cabeza Prieta
340 13771 Cabeza Prieta
341 973 Glacier
342 1010 Glacier Bay
343 35382 Glacier Bay
344 979 North Cascades
345 1020 Oregon Pipe Cactus
346 21389 Panguitch
348 13038 Tongass
349 988 Voyageurs
350 1005 Wrangell-St. Elias
351 35387 Wrangell-St. Elias



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Transfrontier Protected Areas

Northern Asia



PROTECTED AREAS

Map Ref.	Site Code	Name of Area
CHINA		
86	96016	Chang Bai Shan
87	96064	Da Lai Hu
88	95742	Fen Shui Ling Feng
89	95872	Gu Long Shan Shui Yuan Lin
90	95471	Hong He
91	95784	Jang Cun
92	95461	Jing Bo Hu
93	95480	Mu Dan Feng
94	96118	Ta Shi Ku Er Gan
95	95618	Xia Lei Shui Yuan Lin
96	95478	Xing Kai Hu
97	95785	Zhang Mu
KYRGYZSTAN		
188	1675	Besh-Aral'skiy
MONGOLIA		
214	93579	Khovsgul Nuur
215	93538	Mongol Dagur
216	93568	Uvs Nuur Basin
RUSSIA		
265	1715	Boishektehskiy
266	62984	Daur'skiy
267	1723	Kedrovaya Pad
268	62983	Khankalskiy
269	13988	Kosomukh'skiy
270	63548	Kurskaya Kosa
271	1700	aplanskiy
272	68351	Paanayarvi
273	62440	Pasvik
274	68356	Turkiskiy
275	67722	Ussunurskaya Kollivna
UZBEKISTAN		
352	1761	Chatkalskiy



WORLD CONSERVATION
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Transfrontier Protected Areas Central and South America

PROTECTED AREAS

Map Site
Ref. Code Name of Area

ARGENTINA

4	16875	Chañy
5	30844	Complejo Islote Lobos
6	16873	Copahue - Cavihue
7	15	Iguazu
8	61817	Iguazu
9	7	Lanin
10	61820	Lanin
11	4329	Los Glaciares
12	97523	Nahuel Huapi
13	97490	Nahuel Huapi
14	2497	Nahuel Huapi -1-

BELIZE

25	61957	Agua Turbias
26	20230	Chiquibul
27	3314	Columbia River
28	28850	Maya Mountains
29	20224	Rio Bravo
		Conservation Area
30	116297	Vaca

BOLIVIA

36	20035	Altamachi Vicuña
37	36	Eduardo Avaroa
38	20036	Huancaroma Vicuña
39	20049	Itenez
40	98183	Madidi
41	33	Sajama

BRAZIL

44	41090	Baixo Sao Miguel
45	5126	Guaporé
46	60	Iguaçu
47	34028	Pedras Negras
48	54	Pico da Neblina

CHILE

75	9414	Bernardo O'Higgins
76	9418	Huachuehue
77	9435	Las Vicuñas
78	86	Lauca
79	30043	Los Ramecos
80	111	Nuble
81	90	Puyehue
82	89	Torres del Paine
83	88	Vicente Pérez Rosales
84	91	Villarrica
85	10706	Villarrica

COLOMBIA

98	19993	Catatumbo-Bari
99	9400	La Paya
100	142	Los Katios
101	144	Tamá

COSTA RICA

107	12493	Barra del Colorado
108	19402	Gandoca y Manzanillo
109	2553	La Amistad (Talamanca)
110	12491	Las Tablas
111	167	Tortuguero
112	30599	Tortuguero

ECUADOR

128	2499	Cuyabeno
129	186	Yasuni

EL SALVADOR

130	9638	Montecristo
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GUATEMALA

155	102815	Fraternidad o Trifinio
347	30604	Mirador - Rio Azul
156	102817	Naachtún - Dos Lagunas

HONDURAS

159	18804	Montecristo-Trifinio
160	41013	Patuca
161	40996	Rio Negro

NICARAGUA

231	12652	Estero Real
232	30828	Rio Indio Maiz

PANAMA

245	238	Darién
246	16787	Isla Bastimentos
247	2552	La Amistad
248	102253	Lagunas de Volcán
249	17185	Palo Seco

PERU

252	249	Pacaya Samiria
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SURINAME

305	276	Sipaliwini
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VENEZUELA

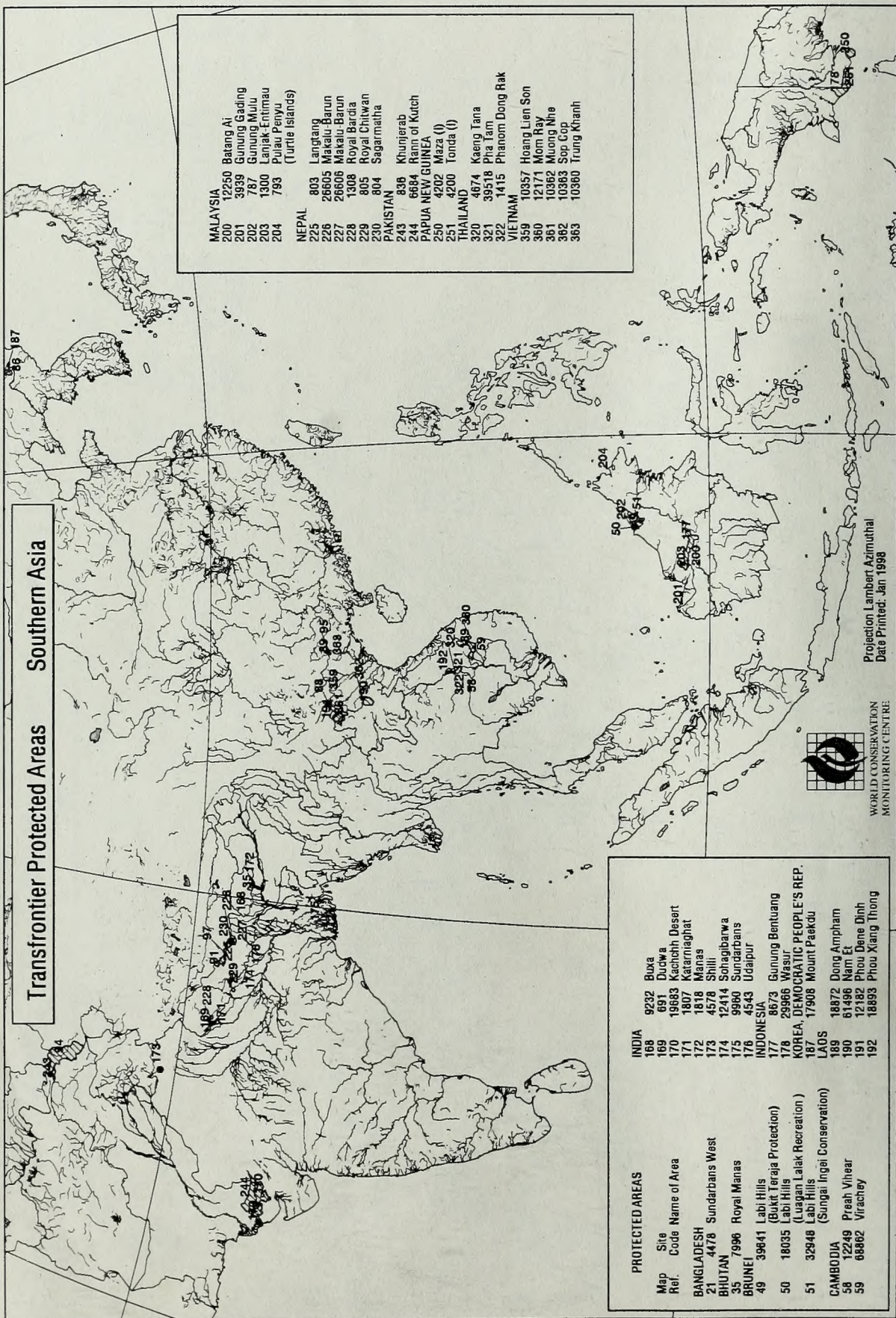
353	101129	Cerro Machado - El Silencio
354	322	El Tamá
355	318	Perijá
356	20068	Región Lago de Maracaibo, Sierra de Perijá
357	30640	San Antonio - Ureña
358	4367	Serranía de la Neblina

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WORLD CONSERVATION
MONITORING CENTRE



Transfrontier Protected Areas Southern Asia



MALAYSIA
 200 12250 Batang Ai
 201 3939 Gunung Gading
 202 787 Gunung Mulu
 203 1300 Lanjak-Entimau
 204 793 Pulau Penyu
 (Turtle Islands)
NEPAL
 225 803 Langtang
 226 26605 Makalu-Barun
 227 26606 Makalu-Barun
 228 1308 Royal Bardia
 229 805 Royal Chitwan
 230 804 Sagarmatha
PAKISTAN
 243 836 Khunjerab
 244 6684 Rams of Kutch
PAPUA NEW GUINEA
 250 4202 Milne Bay
 251 4200 Tonda (I)
THAILAND
 320 4674 Kaeng Tana
 321 39518 Pha Tam
 322 1415 Phnom Dong Rak
VIETNAM
 359 10357 Hoang Lien Son
 360 12171 Mom Ray
 361 10362 Muong Nhe
 362 10363 Sop Cop
 363 10360 Trung Khanh

PROTECTED AREAS

Map Ref.	Site Code	Name of Area
168	9232	Buxa
169	691	Dudwa
170	19683	Kachhih Desert
171	1807	Kaziranga
172	1818	Manas
173	4578	Shillong
174	12414	Sohagbarwa
175	9960	Sundarbans
176	4543	Udaipur
177	8673	Gunung Bentuang
178	29966	Wasur
179	17908	Mount Peakdu
180	18872	Dong Ampham
181	61496	Nam Et
182	12182	Phou Dene Dineh
183	18893	Phou Xiang Thong

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WORLD CONSERVATION
 MONITORING CENTRE

Projection Lambert Azimuthal
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